

Smalltalk Exam Questions

What is meant by the term polymorphism, and which principle of Object Oriented Programming supports this capability?

What are the differences between inheritance in Smalltalk and inheritance in C++?

CFL Questions

State the difference between the open and closed world assumptions. Give an example of each.

In order for the monkey to get the bananas, the boxes must move. As the boxes move, the environment must be updated with new facts to indicate the new locations. What existing facts in the environment must be changed when moving the boxes?

CSP Questions

It is possible for a guarded command to result in an infinite loop? Explain what circumstances could cause this to occur and provide a simple example.

What are the consequences of requiring specific naming of the messages in CSP?

LabVIEW (& Visual Languages) Questions

Explain the "scaling problem" inherent in visual programming languages. How does LabVIEW respond to this problem?

Explain any advantage that visual languages enjoy over text-based languages.